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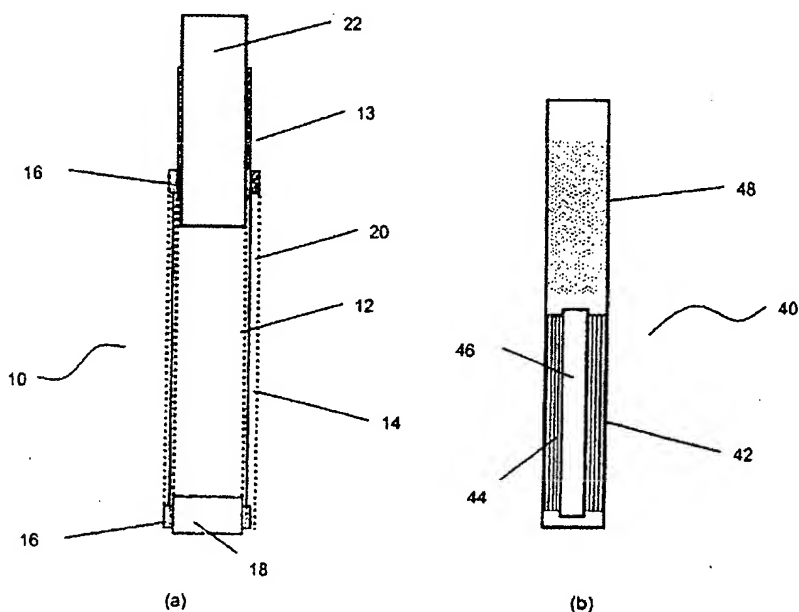
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[Continued on next page]

(54) Title: ELECTROLYSIS PROCESS AND APPARATUS



(57) Abstract: The invention provides an electrolysis apparatus for the production of hydrogen and oxygen, which apparatus includes at least two or more tubular electrodes, at least one of which is an inner electrode located in at least one outer electrode, and a separator interposed between the inner and outer electrodes and substantially coextensive therewith. One or more of the electrodes may, in use, be an anode. One or more of the electrodes may, in use, be a cathode.

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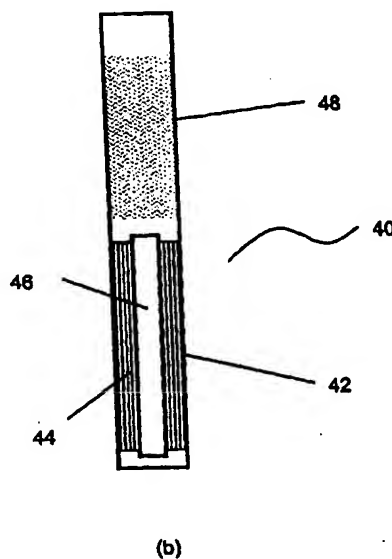
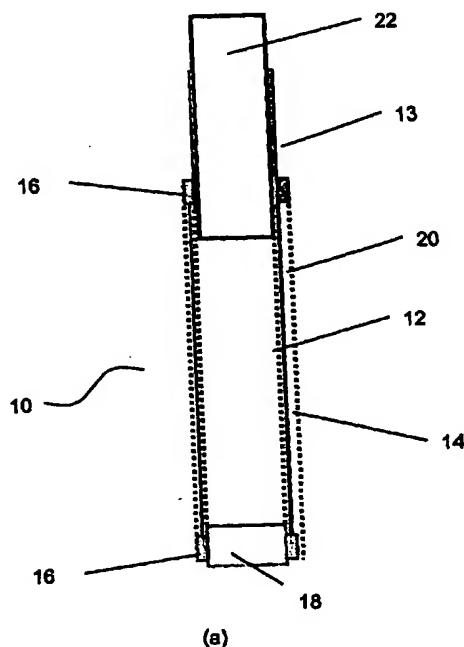
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(57) Abstract: The invention provides an electrolysis apparatus for the production of hydrogen and oxygen, which apparatus in-
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A. CLASSIFICATION OF SUBJECT MATTER IPC(7) : C25B 1/00, 3/00, 11/00, 11/03, 11/04, 13/00; C25D 17/00 US CL : 204/253, 260, 266, 282, 283, 284, 290.01, 292, 293, 295; 205/334 According to International Patent Classification (IPC) or to both national classification and IPC		
B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) U.S. : 204/253, 260, 266, 282, 283, 284, 290.01, 292, 293, 295; 205/334 Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) East: 204/260.ccls. and hydrogen near oxygen; tubular near electrode		
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 3,984,303 A (PETERS et al) 05 October 1976 (05.10.1976), See entire patent.	1-3, 5-7, 9, 11, 14-15, 17, 19, 22-23, 25, 35, 38, 40-41, 51-55, 57-59
Y	US 3,933,614 A (BUNN, JR.) 20 January 1976 (20.01.1976), columns 2-3.	1-6, 9-11, 15, 17, 22-23, 25-29, 35, 37-38, 44-46, 51-52, 55, 59
Y	US 4,374,014 A (SMITH et al.) 15 February 1983 (15.02.1983), see columns 3-5.	1-7, 9, 14-15, 17-19, 26-29, 32-35, 37-38, 44-46, 51-52, 55, 59
A-	US 4,130,473 A (EDDLEMAN) 19 December 1978 (19.12.1978)	
<input type="checkbox"/> Further documents are listed in the continuation of Box C. <input type="checkbox"/> See patent family annex.		
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Date of the actual completion of the international search 05 March 2004 (05.03.2004)		Date of mailing of the international search report 05 APR 2004
Name and mailing address of the ISA/US Mail Stop PCT, Attn: ISA/US Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450 Facsimile No. (703) 305-3230		Authorized officer Donald R. Valentine <i>DRV</i> Telephone No. 571-272-1222

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